

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

1-21 (Cancelled)

22. (Currently Amended) A fluid delivery system, comprising:

a first source of fluid medium;

a first pressurizing device associated with the first source of fluid medium;

a second source of fluid medium;

a second pressurizing device associated with the second source of fluid medium;

a fluid path operable to deliver the first and second fluid media at least to a balloon catheter in a patient, the fluid path comprising:

a valve;

a tube; and

a per-patient connector; and

a control unit in communication with the first and second pressurizing devices;

wherein the control unit is adapted to actuate the first and second pressurizing devices ~~at substantially the same time~~ to deliver the first and second fluid media to a balloon on the balloon catheter.

23. (Previously Presented) The fluid delivery system of Claim 22 wherein the first fluid medium comprises a contrast medium and the second fluid medium comprises a diluent medium.

24. (Currently Amended) The fluid delivery system of Claim 22 wherein the fluid path further comprises a mixing apparatus.

25. (Currently Amended) The fluid delivery of Claim 22 wherein the fluid path further comprises a pressurization pump.

26. (Currently Amended) The fluid delivery system of Claim 22 wherein the valve of the fluid path comprises a check valve.

27. (Previously Presented) The fluid delivery system of Claim 22 wherein the first pressurizing device comprises a pump.

28. (Previously Presented) The fluid delivery system of Claim 27 wherein the pump is a peristaltic pump.

29. (Currently Amended) The fluid delivery system of Claim 22 wherein the fluid path further comprises an air detector.

30. (Currently Amended) The fluid delivery system of Claim 22, ~~further comprising~~ wherein the fluid path comprises a first portion fluid-path associated with the first source of fluid medium and a second portion fluid-path associated with the second source of fluid medium.

31. (Cancelled)

32. (Previously Presented) The fluid delivery system of Claim 22 wherein the second pressurizing device comprises a pump.

33. (Previously Presented) The fluid delivery system of Claim 32 wherein the pump is a peristaltic pump.

34. (Previously Presented) The fluid delivery system of Claim 22, further comprising a handheld control mechanism in communication with the control unit to control the first and second pressurizing devices.

35. (Previously Presented) The fluid delivery system of Claim 22 wherein the first and second fluid media at least partially inflate the balloon.

36-37. (Cancelled)

38. (Currently Amended) A method of delivering fluid media to a balloon catheter in a patient using a fluid delivery system comprising a first source of fluid medium, a first pressurizing device associated with the first source of fluid medium, a second source of fluid medium, and a second pressurizing device associated with the second source of fluid medium, the method, comprising:

~~providing a~~ associating a fluid path with the first pressurizing device associated with a the first source of fluid medium, and a the second pressurizing device associated with a the second source of fluid medium, and the balloon catheter in the patient, the fluid path comprising a valve, a tube, and a per-patient connector; and

~~providing a fluid path operable to deliver the first and second fluid media to the balloon catheter; and~~

actuating the first and second pressurizing devices ~~at substantially the same time~~ to deliver the first and second fluid media via the fluid path at least to a balloon on the balloon catheter.

39-40. (Cancelled)

41. (Previously Presented) The method of Claim 38, further comprising:

providing a control unit in communication with the first and second pressurizing devices to control the operation thereof.

42. (Previously Presented) The method of Claim 41, further comprising:

providing a handheld control mechanism in communication with the control unit to control the first and second pressurizing devices.

43. (Previously Presented) The method of Claim 38 wherein the first and second fluid media at least partially inflate the balloon.

44. (Previously Presented) The method of Claim 38 wherein the first and second fluid media are mixed in the fluid path.

45. (Previously Presented) The method of Claim 44 wherein the first fluid medium comprises a contrast medium and the second fluid medium comprises a diluent medium.

46. (New) The fluid delivery system of Claim 22 wherein the first and second pressurizing devices are operable to deliver the first and second fluid media to the balloon catheter at increasing pressure.

47. (New) The fluid delivery system of Claim 46 wherein the increasing pressure comprises stepped increasing pressure.

48. (New) The method of Claim 38 wherein the first and second pressurizing devices are actuated to deliver the first and second fluid media to the balloon catheter at increasing pressure.

49. (New) The method of Claim 48 wherein the increasing pressure comprises stepped increasing pressure.

50. (New) The fluid delivery system of Claim 22 wherein the control unit is adapted to actuate the first and second pressurizing devices at substantially the same time to deliver the first and second fluid media to the balloon on the balloon catheter.

51. (New) The method of Claim 38 wherein the first and second pressurizing devices are actuated at substantially the same time to deliver the first and second fluid media via the fluid path at least to the balloon on the balloon catheter.

52. (New) A method of delivering fluid media to a balloon catheter in a patient using a fluid delivery system comprising a first source of fluid medium, a first pressurizing device associated with the first source of fluid medium, a second source of fluid medium, and a second pressurizing device associated with the second source of fluid medium, the method comprising:

associating a fluid path at least with the first pressurizing device associated with the first source of fluid medium, the second pressurizing device associated with the second source of fluid medium, and a balloon catheter in a blood vessel of a patient, the fluid path comprising a per-patient portion comprising a valve, a tube, and per-patient connector;

actuating one or both of the first pressurizing device and the second pressurizing device to deliver one or both of the first fluid medium and the second fluid medium to the blood vessel of the patient;

actuating one or both of the first pressurizing device and the second pressurizing devices to deliver one or both of the first and second fluid media via the fluid path to a balloon on the balloon catheter; and

inflating the balloon on the balloon catheter.

53. (New) The method as claimed in Claim 52 wherein the first and second pressurizing devices comprise pumps.

54. (New) The method as claimed in Claim 53 wherein the pumps comprise peristaltic pumps.

55. (New) The method as claimed in Claim 52 further comprising disconnecting the per-patient portion from the fluid path.

56. (New) The method as claimed in Claim 55 wherein the per-patient portion is disconnected from the fluid path by disconnecting the per-patient connector from the fluid path.

57. (New) The method as claimed in Claim 52 wherein the valve comprises a check valve.